3-Phase Current Transformer

Instruction Manual

OVERVIEW

Model	Part Number	Primary	Output
PWCT-15/30 	PWCT-15/30-60A/330mV	60A	330mV
	PWCT-15/30-100A/330mV	100A	330mV
	PWCT-15/30-125A/330mV	125A	330mV
	PWCT-15/30-160A/330mV	160A	330mV
PWCT-16/20 	PWCT-16/20-60A/330mV	60A	330mV
	PWCT-16/20-100A/330mV	100A	330mV
	PWCT-16/20-125A/330mV	125A	330mV
	PWCT-16/20-160A/330mV	160A	330mV
	PWCT-16/20-200A/330mV	200A	330mV
PWCT-21/25 	PWCT-21/25-60A/330mV	60A	330mV
	PWCT-21/25-100A/330mV	100A	330mV
	PWCT-21/25-125A/330mV	125A	330mV
	PWCT-21/25-160A/330mV	160A	330mV
	PWCT-21/25-200A/330mV	200A	330mV
	PWCT-21/25-250A/330mV	250A	330mV
PWCT-31/31 	PWCT-31/31-250A/330mV	250A	330mV
	PWCT-31/31-400A/330mV	400A	330mV
	PWCT-31/31-600A/330mV	600A	330mV
	PWCT-31/31-630A/330mV	630A	330mV
PWCT-54/50 	PWCT-54/50-800A/330mV	800A	330mV
	PWCT-54/50-1000A/330mV	1000A	330mV
	PWCT-54/50-1250A/330mV	1250A	330mV
	PWCT-54/50-1600A/330mV	1600A	330mV

SPECIFICATIONS

Accuracy class	Class 1 to IEC/EN60044-8 & IEC/EN61869-2
Frequency range (f_R)	47 ...63 Hz
Highest Voltage (Um)	0.72 KV r.m.s.
Rated continuous overcurrent	1.2 x rated current
Rated short time thermal current (I_{th})	<60 I_n / 1 second
Rated dynamic current (I_{dyn})	2.5 I_{th}
Rated secondary burden	> 5 KΩ
Rated insulation level	3KV r.m.s. 50 Hz/1 min
Operating temperature range	-25°C ...40°C
Storage temperature range	-40°C ...85°C
Relative humidity	≤ 85% non-condensing
IP rating	Housing: IP40, Terminal: IP20
Housing material	Self-extinguishing polycarbonate
Altitude of operation	≤ 2000 m

CE Developed and manufactured in accordance with the applicable EU regulations EN61010 and Low Voltage Directive 2014/35/EU.

RoHS COMPLIANT

PRODUCT SAFETY PRECAUTIONS

Safety related notification, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it may impair the protection provided by the equipment.

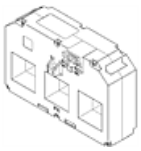
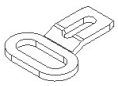
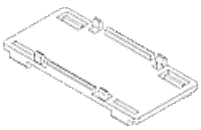
- Do not use the equipment if there is any mechanical damage
- Do not exceed the device's maximum limits of rating
- No repairs, maintenance or adjustments are possible
- Read all instructions prior to installation or operating the unit
- The equipment in its installed state must not come into close proximity to any heating sources, oils, steam, caustic vapours or other unwanted process by-products
- Do not use in hazardous or classified location where explosion or other dangers can be triggered by the device

INSTALLATION PRECAUTIONS

Risk of electric shock! To avoid personal and material damage, the installation process must be performed by qualified and trained personnel only.

- To prevent the risk of electrocution, always isolate and lock-off the power supply to the equipment prior to undertaking any work
- Always confirm absence of electricity prior to starting work using appropriate voltage detection equipment
- Wiring shall be done strictly according to the terminal layout
- Copper cable should be used
- Confirm that all connections are correct before energizing the equipment
- Routing of connecting cables should be away from any internal EMI sources
- Secondary terminals must not be left open circuit when Primary is under load

CONTENT

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	DIN Rail Mounting Bracket	1
	Screw M4 x 50mm	3
	Nut M4	3
	Busbar Insulator	3
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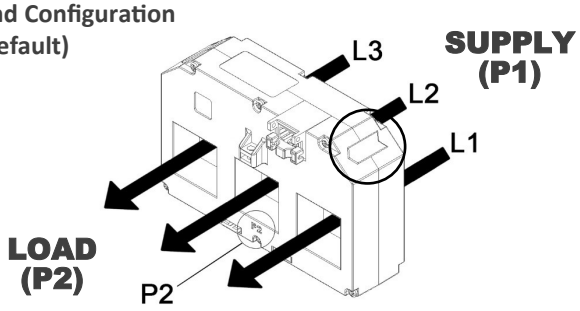
3-Phase Current Transformer

Instruction Manual

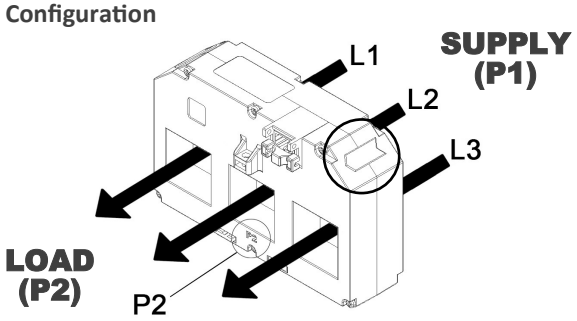
ORIENTATION

All **THREE PHASE** current transformers as default are configured to monitor incoming supplies (L1 on right-hand side when viewed from the P2 face. If the transformer is to be used for load monitoring (requiring L1 to be on left-hand side when viewed from the P2 face), the operator must perform the "To Change" procedure described in the meters operating manual.

Right-hand Configuration (Meter Default)

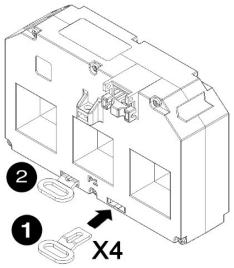


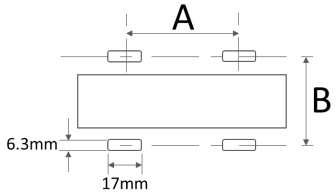
Left-hand Configuration



MOUNTING

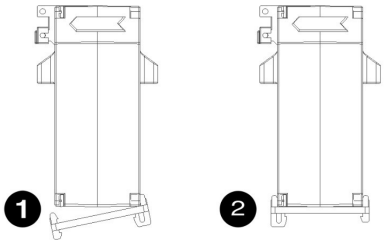
Option 1: Foot Mounting



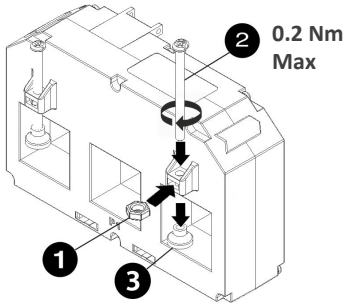


Model	A (mm)	B (mm)
PWCT-15/30 & 16/20	36.5	82.5
PWCT-21/25 & 31/31	36.5	60.5
PWCT-54/50	68	60.5

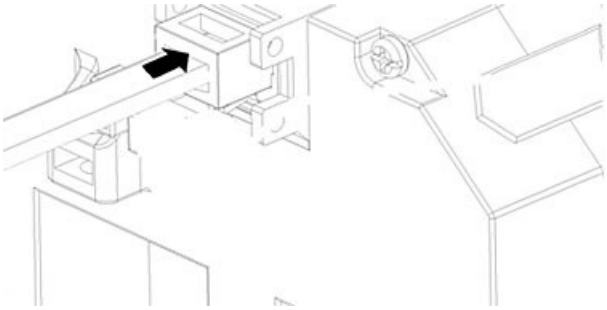
Option 2: 35mm DIN Rail Mounting



Option 3: Busbar Mounting

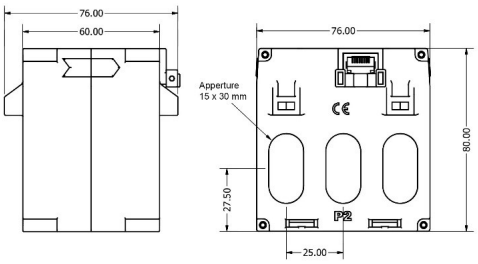


METER CABLE CONNECTION

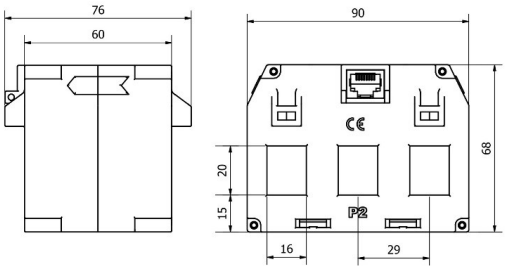


DIMENSIONS

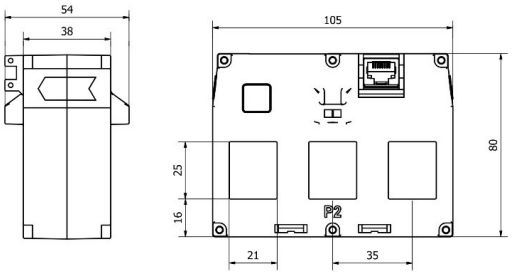
PWCT-15/30



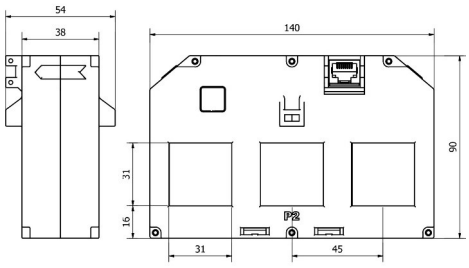
PWCT-16/20



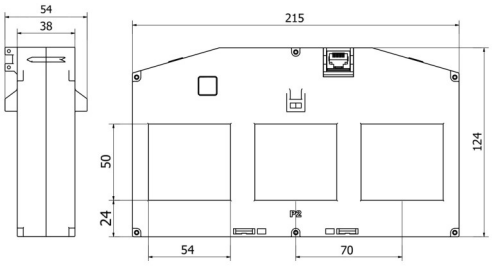
PWCT-21/25



PWCT-31/31



PWCT-54/50



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